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2-623

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Point of Contact:
Mary Hale
Technical Info. Specialist
CM1 12D16 Tel: 308-4258

rec'd 3/19

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SERIAL NUMBER 09/086, A-B	FILING DATE 05/28/98	CLASS 435	GROUP/PART UNIT 2 1623	ATTORNEY/DOCKET NUMBER ETIIP00208
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ROBERT L. JAFFE, LONG ISLAND CITY, NY.

CONTINUING DOMESTIC DATA***
VERIFIED

371 (NAT'L STAGE) DATA***
VERIFIED

FOREIGN APPLICATIONS***
VERIFIED

FOREIGN FILING LICENSE GRANTED 06/11/98

***** SMALL ENTITY *****

Sign Priority claimed <input type="checkbox"/> yes <input type="checkbox"/> no USC 119 (a-d) conditions met <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance Filed and Acknowledged <u>Examiner's Initials</u> <u>Initials</u>	STATE OR COUNTRY NY	SHEETS DRAWING 7	TOTAL CLAIMS 15	INDEPENDENT CLAIMS 1
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SEE CUSTOMER NUMBER: 021121

DETERMINATION OF CYTOTOXIC SUBSTANCES IN WHOLE EFFLUENT SAMPLES

FILING FEE RECEIVED \$460	FEES: Authority has been given in Paper No. _____ to charge/cr dit DEPOSIT ACCOUNT NO. _____ for the following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Cr dit _____
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PART 3 - OFFICE

CLAIMS

1. A method for evaluating a whole effluent sample for the presence of cytotoxic substances comprising the steps of:

- (a) obtaining a sample for testing containing a plurality of potentially cytotoxic substances;
- (b) combining a first aliquot of the whole effluent sample directly with a first culture of a particle-feeding flagellate; and
- (c) monitoring the growth of the particle-feeding flagellate culture in the presence of the whole effluent sample, wherein a decrease in growth of the culture in the presence of the whole effluent sample is indicative of the presence of cytotoxic agents in the whole effluent sample.

2. The method according to claim 1, wherein the particle-feeding flagellate is *Tetramitus rostratus* in flagellate form.

3. The method according to claim 1, wherein the particle-feeding flagellate is selected from the group consisting of *Chilodenella uncinata*, *Bodo caudatus*, *Cercomonas longicauda*, *Diplonema ambulator*, *Scytomonas pusilla* and *Bodo designis*.

4. The method according to claim 1, wherein a series of dilutions of the whole effluent sample is prepared and each dilution is individually combined with a culture of particle-feeding flagellate to determine a dose response curve.

5. The method according to claim 4, wherein the particle-feeding flagellate is *Tetramitus rostratus* in flagellate form.

combining the particulate fraction with a third culture of particle-feeding flagellate;

determining the growth of the particle-feeding flagellate culture in the presence of the particulate fraction; and

comparing the growth of the particle-feeding flagellate culture in the presence of the particulate fraction to the growth in the presence of the unfiltered whole effluent sample.

12. The method of claim 11, wherein a series of dilutions of the particulate fraction is prepared and each dilution is individually combined with a culture of particle-feeding flagellate to determine a dose response curve.

13. The method according to claim 12, wherein the particle-feeding flagellate is *Tetramitus rostratus* in flagellate form.

14. The method according to claim 11, wherein the particle-feeding flagellate is *Tetramitus rostratus* in flagellate form.

15. The method of claim 1, further comprising the step of monitoring the growth of a second culture of particle-feeding flagellate in the presence of the whole effluent and comparing the growth of the first and second cultures, wherein the mean size of the flagellates in the first and second cultures is different.

Gitomer
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=> s particle feed? flagell? and (unicina? or caudata? or longicaud? or
ambulat? or pusill? or design?)

L1	0	FILE MEDLINE
L2	0	FILE CAPLUS
L3	0	FILE BIOSIS
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L5	0	FILE WPIDS

TOTAL FOR ALL FILES

L6	0	PARTICLE FEED? FLAGELL? AND (UNICINA? OR CAUDATA? OR LONGICAUD? OR AMBULAT? OR PUSILL? OR DESIGN?)
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=> s flagell? and (unicina? or caudata? or longicaud? or ambulat? or pusill?
or designis?)

L7	5	FILE MEDLINE
L8	12	FILE CAPLUS
L9	313	FILE BIOSIS
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L11	0	FILE WPIDS

TOTAL FOR ALL FILES

L12	335	FLAGELL? AND (UNICINA? OR CAUDATA? OR LONGICAUD? OR AMBULAT? OR PUSILL? OR DESIGNIS?)
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=> s flagell? and rostrat?

L13	7	FILE MEDLINE
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L16	4	FILE EMBASE
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L18	77	FLAGELL? AND ROSTRAT?
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=> s (l12 or l18) and particle feed?

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L20	1	FILE CAPLUS
L21	1	FILE BIOSIS

L22 1 FILE EMBASE
L23 0 FILE WPIDS

TOTAL FOR ALL FILES

L24 4 (L12 OR L18) AND PARTICLE FEED?

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PROCESSING COMPLETED FOR L24

L25 1 DUP REM L24 (3 DUPLICATES REMOVED)

=> d cbib abs 1

L25 ANSWER 1 OF 1 MEDLINE

DUPLICATE 1

96231558 Document Number: 96231558. Rapid assay of cytotoxicity using Tetramitus **flagellates**. Jaffe R L. (Environmental Toxicology Laboratory, Long Island City, New York 11101, USA.)TOXICOLOGY AND INDUSTRIAL HEALTH, (1995 Sep-Oct) 11 (5) 543-58. Journal code: VWS.

ISSN:

0748-2337. Pub. country: United States. Language: English.

AB A simple test for measuring cytotoxic agents has been developed using the **flagellate** phenotype of Tetramitus **rostratus**. The test measures dose-dependent inhibition of cell division by individual agents such as 4-nitroquinoline-N-oxide and other mutagens. Dose-response data are given also for mixtures including coal tar pitch condensate, centrifuged particles obtained from tap water, and water concentrates prepared with XAD-2 resin. Because Tetramitus **flagellates** have a gullet and are **particle-feeders**, the assay allows for cytotoxic measurements of whole particles without prior extraction or solvent substitution procedures. The cytotoxic activities observed may reflect genotoxic activity, since all chemicals that produced a positive response are genotoxic in other test systems.

=> s flagell? and cytotox? and effluent?

L26 0 FILE MEDLINE
L27 0 FILE CAPLUS
L28 1 FILE BIOSIS
L29 0 FILE EMBASE
L30 0 FILE WPIDS

TOTAL FOR ALL FILES

L31 1 FLAGELL? AND CYTOTOX? AND EFFLUENT?

=> d cbib abs

L31 ANSWER 1 OF 1 BIOSIS COPYRIGHT 1999 BIOSIS

1982:201482 Document No.: BA73:61466. LEISHMANIA-ENRIETTII IMMUNE INDUCTION OF

MACROPHAGE ACTIVATION IN AN EXPERIMENTAL MODEL OF IMMUNO PROPHYLAXIS IN THE MOUSE. MAUEL J; BEHIN R; LOUIS J. WORLD HEALTH ORGANIZATION IMMUNOL. RES. AND TRAINING CENTRE, INST. BIOCHEM., 1066 EPALINGES, SWITZERLAND.. EXP PARASITOL, (1981) 52 (3), 331-345. CODEN: EXPAAA. ISSN: 0014-4894. Language: English.

AB Some of the parameters of the cellular immune response elicited in mice
by inoculation of the nonpathogenic protozoan parasite *L. enriettii* are described. In vitro incubation of leishmania-infected mouse peritoneal macrophages with spleen cells from syngeneic Leishmania-immune animals

resulted in activation of the phagocytes, leading to intracellular parasite destruction. Activation required interaction of sensitized lymphocytes with parasite antigen released or displayed infected macrophages. The effect was dependent both on the dose of parasites used for in vivo priming and on the number of spleen cells cocultivated with parasitized by anti-Thy-1 antiserum treatment and was retained in the **effluent** cells after nylon-wool separation. Activation was followed by lysis of part of the macrophage monolayer. Destruction of the phagocytes did not appear to result from the activation process per se and may represent a **cytotoxic** activity of sensitized lymphocytes for macrophages bearing parasite antigen on their surface.

=> s jaffe r?/au,in

'IN' IS NOT A VALID FIELD CODE
L32 658 FILE MEDLINE
L33 627 FILE CAPLUS
L34 764 FILE BIOSIS
'IN' IS NOT A VALID FIELD CODE
L35 536 FILE EMBASE
L36 17 FILE WPIDS

TOTAL FOR ALL FILES
L37 2602 JAFFE R?/AU,IN

=> s l37 and flagell?

L38 1 FILE MEDLINE
L39 2 FILE CAPLUS
L40 1 FILE BIOSIS
L41 1 FILE EMBASE
L42 1 FILE WPIDS

TOTAL FOR ALL FILES
L43 6 L37 AND FLAGELL?

=> s l43 not (l31 or l24)

L44 0 FILE MEDLINE
L45 1 FILE CAPLUS
L46 0 FILE BIOSIS
L47 0 FILE EMBASE
L48 1 FILE WPIDS

TOTAL FOR ALL FILES
L49 2 L43 NOT (L31 OR L24)

=> dup rem l49

PROCESSING COMPLETED FOR L49
L50 1 DUP REM L49 (1 DUPLICATE REMOVED)

=> d cbib abs

L50 ANSWER 1 OF 1 CAPLUS COPYRIGHT 1999 ACS DUPLICATE 1
1995:420587 Document No. 122:180888 Detection of cytotoxic agents using
Tetramitus rostratus. Jaffe, Robert L. (USA). U.S. US 5387508
A 19950207, 17 pp. (English). CODEN: USXXAM. APPLICATION: US
92-883257

19920514.
AB Cytotoxic agents, and particularly DNA-damaging agents, can be detected
in a sample by a method comprising the steps of (a) adding the sample to a
living culture of Tetramitus rostratus in **flagellate** form, (b)
detg. the growth rate of the T. rostratus culture in the presence of the
sample, and (c) comparing the growth rate of the T. rostratus culture in
the presence of the sample to a std. growth rate. A decrease in growth
rate is indicative of the presence of cytotoxic agents in the sample.
The use of the **flagellate** T. rostratus allows this assay to be used
on solid as well as liq. or gaseous samples because T. rostratus ingests
particulate materials via a gullet.

=> s (l12 or l18) and cytotox?

L51	1 FILE MEDLINE
L52	2 FILE CAPLUS
L53	1 FILE BIOSIS
L54	1 FILE EMBASE
L55	1 FILE WPIDS

TOTAL FOR ALL FILES

L56	6 (L12 OR L18) AND CYTOTOX?
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=> s l56 not (l31 or l24 or l43)

L57	0 FILE MEDLINE
L58	0 FILE CAPLUS
L59	0 FILE BIOSIS
L60	0 FILE EMBASE
L61	0 FILE WPIDS

TOTAL FOR ALL FILES

L62	0 L56 NOT (L31 OR L24 OR L43)
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